

**Work Order ID 59822**

Friday, June 11, 2010 12:56:48 PM



Page 2

**Work Order ID 59822**

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Page 1

Item ID: D407-558-045

Accept



Setup Start



Revision ID:

Stop



Item Name: Single Cargo Mirror Assembly

Start Date: 6/11/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 6/18/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan:

*R*

Date:

*10-6-11*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and type labels as per PPP D407-558-045 and DSI 9436  
CHG001*8/06/15**HJ for BG 10/06/15*

110

0.00



Small Fab

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D206-558

*= 7 m.l w/06/15**(2X)*

120

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

*8/06/15**(+2)*

W/O: 59822

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
12/6/15	#100	Perm. Change Missing Part on w/o to Part List. ADD Missing Part to list MS35489-67 m# 11113 Qty +1 per list 8/6/15	SD	10.6.15			8/6/15
		- update w/o to Bom also ADD Part #'s to w/o. ADD copy of update Bom to w/o for reference	AA	10.06.17			8/6/15

Part No: D407-558-045 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date &amp; initial all entries

H:\FORMS\Quality Assurance\approved QA\NCRWO RevE

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NOTE: Date &amp; initial all entries

H:\FORMS\Quality Assurance\approved QA\NCRWO RevE

# Picklist Print

Friday, June 11, 2010 12:56:52 PM

Page 1

Work Order ID: 59822

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly

Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec

Start Date: 6/11/2010

Required Date: 6/18/2010

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN3-4A Bolt		Purchased	No				Each	1,398.000	4	8			

Location	Loc Qty	Loc Code
ST350	1398	
104214	249	
104291	300	
104322	200	
104374	200	
104625	300	
104817	149	

AN526-1032R9 Screw		Purchased	No				Each	118.0000	4	8			
-----------------------	--	-----------	----	--	--	--	------	----------	---	---	--	--	--

Location	Loc Qty	Loc Code
ST328	118	
113928	1	
114382	117	

AN960JD10 Washer	NAS1149D0363J	Purchased	No				Each	0.0000	4	8			
---------------------	---------------	-----------	----	--	--	--	------	--------	---	---	--	--	--

AN960JD10L Washer	NAS1149D0332J	Purchased	No				Each	3,779.000	6	12			
----------------------	---------------	-----------	----	--	--	--	------	-----------	---	----	--	--	--

Location	Loc Qty	Loc Code
ST348	3779	
110985	3779	

8X

8X m-l w/06/15

8X m-l w/06/15

8X m-l w/06/15

10-6-15JP

12X m-l w/05/15

M114 292 710

M113237

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Required Date: 6/18/2010

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2011-101  6" Mirror		Manufactured	No			#110	Each	44.0000	1	2			

Location

Loc Qty

Loc Code

ST231

44

58398 ✓

44

2x m-l 10/06/15

D2052



Mounting Bracket

Manufactured

No

#110

Each

16.0000

2

4

Location

Loc Qty

Loc Code

ST005

16

56290 ✓

16

130

Each

38.0000

1

2

4x m-l 10/06/15

D2053



Mounting Bracket

Manufactured

No

Location

Loc Qty

Loc Code

ST005

38

47595 ✓

2

58395 ✓

36

2x m-l 10/06/15

D2054



Bushing

Manufactured

No

#110

Each

50.0000

2

4

Location

Loc Qty

Loc Code

ST005

50

56291 ✓

1

58392 ✓

49

4x m-l 10/06/15

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 59822

Parent Item: D407-558-045

Parent Item Name: Single Cargo Mirror Assembly


Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec

Start Date: 6/11/2010

Required Date: 6/18/2010


Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2055  Clamp		Manufactured	No			#110	Each	52.0000	1	2			

Location	Loc Qty	Loc Code
ST005	52	
55726 ✓	3	
58393 ✓	49	

2x m-l 10/06/15

D2056  Bell Crank		Manufactured	No			#110	Each	21.0000	1	2			
--	--	--------------	----	--	--	------	------	---------	---	---	--	--	--

Location	Loc Qty	Loc Code
ST006	21	
45542 ✓	13	
58514 ✓	8	

2x m-l 10/06/15

D2057  Plug		Manufactured	No			#110	Each	21.0000	1	2			
---	--	--------------	----	--	--	------	------	---------	---	---	--	--	--

Location	Loc Qty	Loc Code
ST006	21	
57039 ✓	1	
59215 ✓	20	

1x m-l 10/06/15  
1x

D2065  Arm		Manufactured	No			#110	Each	4.0000	1	2			
---	--	--------------	----	--	--	------	------	--------	---	---	--	--	--

Location	Loc Qty	Loc Code
ST229	4	
56303 ✓	4	

2x m-l 10/06/15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D2067

Manufactured

No

130

Each

12.0000

1

12



Connector

Location

Loc Qty

Loc Code

ST006

12

54698 ✓

12

Each

4.0000

1

12

D2071-3

Manufactured

No

130



Cable

Location

Loc Qty

Loc Code

ST222

4

58512 ✓

4

Each

22.0000

1

12

D3778-1

Manufactured

No

130



Bracket

Location

Loc Qty

Loc Code

ST227

22

56316 ✓

22

Each

3,273.000

2

4

MS21042L3

Purchased

No



Nut

Location

Loc Qty

Loc Code

ST300

3273

113537

18

113644

3

114523 ✓

752

114718

500

114784

2000

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Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Parent Item: D407-558-045

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Required Date: 6/18/2010

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS21042L3

Purchased

No

130

Each

3,273.000

2

1

2



Nut

## Location

## Loc Qty

## Loc Code

ST300

3273

113537

18

113644

3

114523

752

114718

500

114784

2000

MS21919-DG5

Purchased

No

130

Each

30.0000

2

7

4



Clamp

## Location

## Loc Qty

## Loc Code

ST306

20

114348

20

ST319

10

114761

10

MS27039-1-18

Purchased

No

Each

83.0000

2

4



Screw

## Location

## Loc Qty

## Loc Code

ST292

83

113845

83

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Shop Packet Print

Page 5

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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D206-558

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## INSTALLATION INSTRUCTIONS

D206-558

# Cargo Mirror Installation

BELL 206A/B/L/L1/L3/L4 & 407 MODELS

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY: <u>D. Shepherd</u>	
D. SHEPHERD (DE # 02)	
DATE: <u>OCT. 03, 2001</u>	
CERT. NO.: <u>SH92-17</u>	
ISSUE NO.: <u>7</u>	

Prepared By: R. Fuentes  
R. Fuentes  
Mechanical Designer

Checked By: D. Shepherd  
D. Shepherd, P. Eng.  
DE #02

Released By: D. Shepherd  
D. Shepherd, P. Eng.  
DE #02

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Revision: C  
Date: 01.10.03

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries

**REVISION RECORD**

Revision No.	Issue Date	Description
-	92.01.20	New issue
A	93.08.31	Added L4
B	97.02.21	Added 407
C	01.10.03	Re-formatted

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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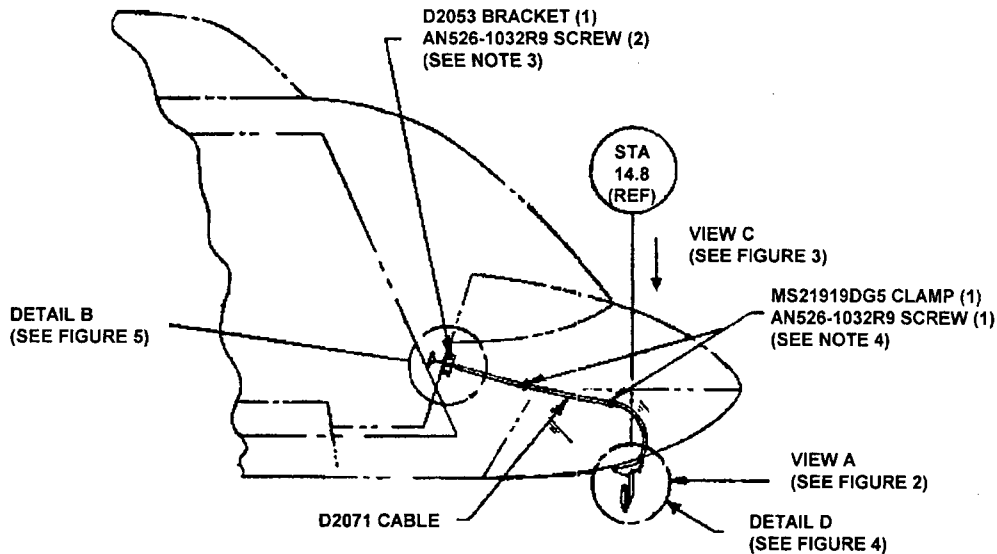
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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## 1.0 INTRODUCTION

The cargo mirror is available as either a single (D206-558-041) or a dual (D206-558-043) and allows the pilot to view the hook/load for safe hookup and release. The dual mirror kit is used primarily for pilot training. Using the control cable inside the cabin, the cargo mirror can be easily adjusted or stowed for cruise flight.



**Figure 1: D206-558-041/-043 Cargo Mirror Installations (Shown in Deployed Position)**

## 2.0 GENERAL NOTES

### COMPATIBILITY

Compatibility of this installation with the aircraft is the **responsibility of the installer**. Ensure that this installation does not conflict with a previous modification.

### CONTINUING AIRWORTHINESS

This installation should be maintained in accordance with the Instructions for Continued Airworthiness ICA-D206-558.

W/O:		WORK ORDER CHANGES					
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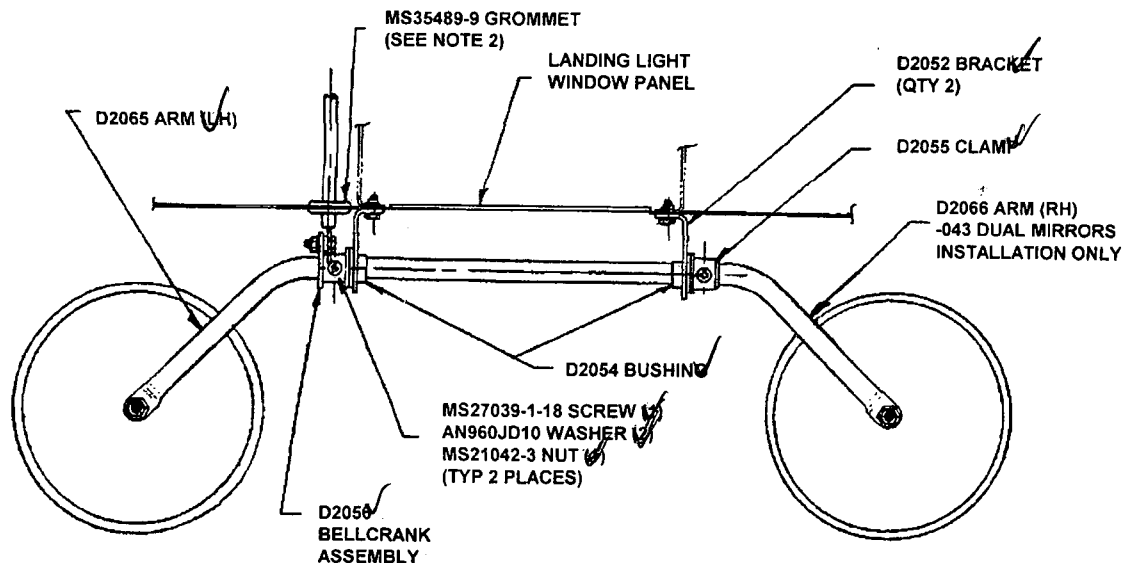
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### 3.0 CARGO MIRROR INSTALLATION

Install the Cargo Mirror as follows:

1. Install D206-558-041/-043 cargo mirror assembly using AN3-4A bolts and AN960JD10L washers. Pickup existing anchor nuts in 4 places.
2. Install D2067 connector onto D2056 bellcrank assembly to locate hole for MS35489-9 grommet. With the mirror in the deployed position, mark and drill  $\varnothing 0.125"$  (3.2mm) hole in landing light window panel where the grommet should be located. Open pilot hole to  $\varnothing 0.563"$  (14.3mm). Install grommet.
3. Install D2053 bracket using AN526-1032R9 screws. Pickup on existing anchor nuts.
4. Position D2071 cable as shown. Install MS21919DG5 clamps using AN526-1032R9 screws where required. Pickup existing rivnuts or anchor nuts if available.
5. Install D2071 control cable using D2067 connector. Connector should rotate freely in bellcrank when MS21042-3 nut is torqued and cable clamped



**Figure 2: – View A: Looking Aft.  
(D206-558-043 Mirror Shown)**

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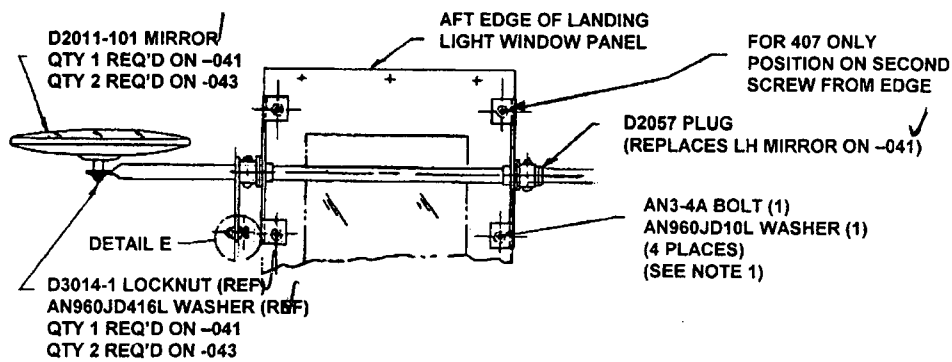


Figure 3: - View C: Looking Down on Mirror Installation  
(D206-558-041 Mirror Shown)

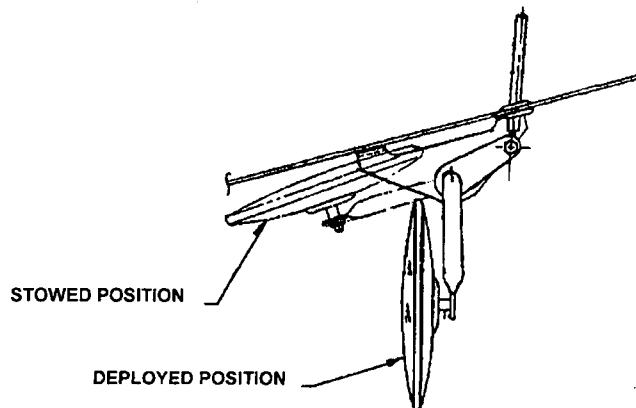


Figure 4: - Detail D: Looking from Side on Mirror Installation  
(D206-558-041/-043 Mirror Shown)

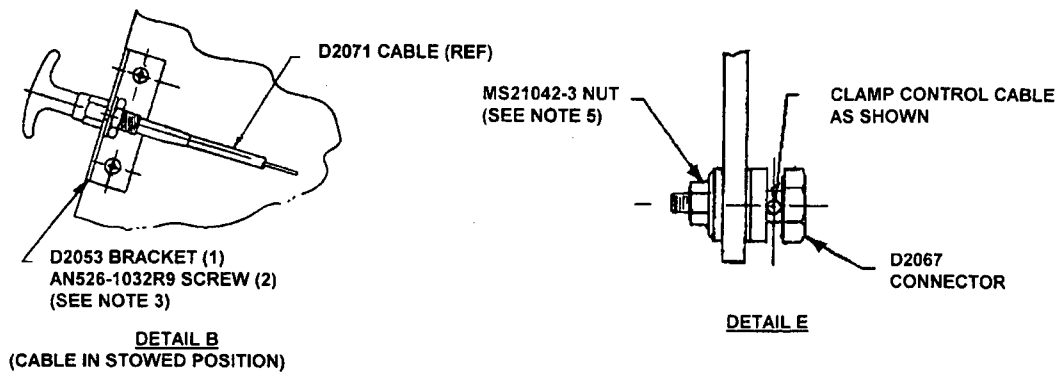


Figure 5: - Details B and E on Mirror Installation  
(D206-558-041/-043 Mirror Shown)

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## 4.0 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-558-041 Bell 206A/B/L/L1/L3/L4 Bell 407	2.4 lb 1.09 Kg	+5.0 in +0.13 m	+12.0 in-lb +0.14 m-Kg	+14.8 in +0.38 m	+35.5 in-lb +0.41 m-Kg
D206-558-043 Bell 206A/B/L/L1/L3/L4 Bell 407	3.0 lb 1.36 Kg	0.0 in 0.0 m	0.0 in-lb 0.0 m-Kg	+14.8 in +0.38 m	+44.4 in-lb +0.52 m-Kg

## 5.0 WEIGHT AND BALANCE

Qty -041	Qty -043	Part Number	Description
X		D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X	D206-558-043	DUAL CARGO MIRROR ASSEMBLY
1	2	D3014-1	* LOCKNUT
1	1	D2071	CABLE ASSEMBLY
2	2	D2054	BUSHING
1	1	D2067	CONNECTOR
	1	D2066	ARM
1		D2065	ARM
1		D2057	PLUG
1	1	D2056	BELLCRANK ASSEMBLY
1	1	D2055	CLAMP
1	1	D2053	BRACKET
2	2	D2052	BRACKET
1	2	D2011-101	MIRROR ASSEMBLY
4	4	AN3-4A	BOLT
4	4	AN526-1032R9	SCREW
1	2	AN960JD416L	* WASHER
4	4	AN960JD10	WASHER
6	6	AN960JD10L	WASHER
3	3	MS21042-3	NUT (or MS21042L3)
2	2	MS21919DG5	CLAMP
2	2	MS27039-1-18	SCREW
1	1	MS35489-9	GROMMET
		/	

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

W/O:		WORK ORDER CHANGES					
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**NOTE:** Date & initial all entries



# REFERENCE ONLY

FROM THIS POINT FORWARD, CUSTOMERS SHOULD ORDER D407-558-045/-047 IN LIEU OF D206-558-041/-043 WHEN PROCURING SINGLE/DUAL MIRRORS FOR BHT 407 MODELS. AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND 25.3 AND 25.4 OF ICA-D206-558 REV. 0 AS FOLLOWS:

## 4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER)

### 25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-558-041	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D206-558-043	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg
D407-558-045	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg
D407-558-047	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg

## 5.0 PARTS LIST (D206-558 REV. C OR EARLIER)

### 25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	2	2	D2011-101	MIRROR ASSEMBLY
2	2	2	2	D2052	BRACKET
1	1	1	1	D2053	BRACKET
2	2	2	2	D2054	BUSHING
1	1	1	1	D2055	CLAMP
1	1	1	1	D2056	BELLCRANK ASSEMBLY
1		1	1	D2067	PLUG
1		1	1	D2065	ARM
	1		1	D2066	ARM
1	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-3	CABLE ASSEMBLY
1	2	2	2	D3014-1	* LOCKNUT
1	1	1	1	D3778-1	BRACKET
4	4	4	4	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	2	2	AN980JD416L	* WASHER
4	4	4	4	AN980JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3) -2
2	2	2	2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1/8	SCREW
1	1			MS35489-9	GROMMET
		1	1	MS35489-67	GROMMET

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: D. SHEPHERD (DE # 02)

DATE: 08.12.04

CERT. NO.: SH92-17

ISSUE NO.: 7

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9436	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CABLE CHANGE	NTS
DATE <u>08.12.04</u>		COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries